	Document ID	Issue Date	Pa ges	Title	Current OR	Current XRef
1	US 20040136466 A1	20040715		System and Method for Joint Maximal Ratio Combining Using Time-Domain Based Signal Processing	375/267	
2	US 20040071222 A1	20040415	23	Wireless communication apparatus and method	375/267	
3	US 20030152159 A1	20030814	29	Communication method, communication system, transmitter, and receiver	375/267	375/299; 375/347
4	US 20030099304 A1	20030529	18	System and method for transmit diversity base upon transmission channel delay spread	375/267	375/130
5	US 20030072382 A1	20030417	56	Spatio-temporal processing for communication	375/267	
6	US 20030063680 A1	20030403	16	Per-bin DFE for advanced OQAM-based multi-carrier wireless data transmission systems	375/260	375/350
7	US 20030043929 A1	20030306	20	Transmit signal preprocessing based on transmit antennae correlations for muliple antennae systems	375/267	375/347
8	US 20030043928 A1	20030306	25	Coding scheme for a wireless communication system	375/267	375/347
9	US 20030026348 A1	20030206	23	Wireless communication apparatus and method	375/267	
10	US 20020193146 A1	20021219	35	Method and apparatus for antenna diversity in a wireless communication system	455/562. 1	375/347; 455/101; 455/272
11	US 20020191703 A1	20021219	24	Method and apparatus for utilizing channel state information in a wireless communication system	375/267	
12	US 20020181549 A1	20021205	12	Multicarrier receiver with channel estimator	375/142	375/260; 375/343; 375/350
13	US 6778514 B1	20040817	13	Subspace combination of multisensor output signals	370/334	370/335; 370/514; 375/347; 455/137
14	US 6771706 B2	20040803	22	Method and apparatus for utilizing channel state information in a wireless communication system	375/267	375/260; 375/296; 375/347; 375/349; 455/101

	Inventor
1	Tesfai, Yohannes et al.
2	Liang, Ying-Chang et al.
3	Denno, Satoshi
4	Gore, Dhananjay et al.
5	Raleigh, Gregory G. et al.
6	Nedic, Slobodan et al.
7	Sampath, Hemanth
8	Ling, Fuyun et al.
9	Llang, Ying-Chang et al.
10	Wallace, Mark et al.
11	Ling, Fuyun et al.
12	Linnartz, Johan Paul Marie Gerard et al.
13	Boccuzzi, Joseph et al.
14	Ling, Fuyun et al.

	Document ID	Issue Date	Pa ges	Title	Current OR	Current XRef
15	US 6754261 B1	20040622	34	System, device, and method for determining the sampling time for a time-domain equalizer	375/232	375/231; 375/340; 375/344; 375/350
16	US 6741658 B1	20040525	13	Apparatus, and associated method, for forming a signal for communication upon a fading channel	375/267	375/347
17	US 6724842 B1	20040420	13	Method for wireless differential communication using multiple transmitter antennas	375/347	370/334; 375/240; 375/260; 375/299
18	US 6697424 B1	20040224	17	Fast convergent pipelined adaptive decision feedback equalizer using post-cursor processing filter	375/233	375/350
19	US 6650716 B1	20031118	15	Space-time receiver structure for digital communication systems	375/347	375/348; 455/296
20	US 6603809 B1	20030805	9	Apparatus, and associated method, for forming a signal for communication upon a fading channel	375/223	375/265; 375/267; 375/268; 375/271; 375/299; 375/302; 455/101; 455/521; 708/203; 708/520; 708/607; 714/701; 714/774; 714/792; 714/810
21	US 6587526 B1	20030701	9	Apparatus and method for timing synchronization in OFDM-based wireless systems	375/355	375/347; 375/357; 375/358
22	US 6477161 B1	20021105	14	Downlink beamforming approach for frequency division duplex cellular systems	370/342	370/281; 370/319; 370/334; 370/344; 375/267; 455/562.

	Inventor
15	Liu, Qingli et al.
16	Ionescu, Dumitru Mihai
17	Hochwald, Bertrand et al.
18	Yang, Meng-Da et al.
19	Ratnarajah, Tharmalingam
20	Ionescu, Dumitru Mihai
21	Li, Junyi et al.
22	Hudson, John Edward et al.

	Document ID	Issue Date	Pa ges	Title	Current OR	Current XRef
23	US 6473467 B1	20021029	29	Method and apparatus for measuring reporting channel state information in a high efficiency, high performance communications system	375/267	370/208; 370/210; 375/144; 375/260; 375/299; 375/347
24	US 6452981 B1	20020917	50	Spatio-temporal processing for interference handling	375/299	375/296; 375/347; 375/349
25	US 6430239 B1	20020806	12	Process of cyclic detection in diversity of polarization of digital cyclostationary radioelectric signals	375/347	342/361; 342/373; 342/383; 343/726; 343/756; 343/893
26	US 6400780 B1	20020604	9	Space-time diversity for wireless systems	375/347	375/140
27	US 6396886 B1	20020528	12	DMT time-domain equalizer algorithm	375/350	375/232; 375/260
28	US 6327314 B1	20011204	31	Method and apparatus for channel estimation for multicarrier systems	375/340	342/378; 375/347; 455/63.1
29	US 6320901 B1	20011120	16	Method for fast off-line training for discrete multitone transmissions	375/222	370/503; 375/231; 375/354; 708/305
30	US 6144711 A	20001107	49	Spatio-temporal processing for communication	375/347	375/346; 375/349
31	US 6128276 A	20001003	53	Stacked-carrier discrete multiple tone communication technology and combinations with code nulling, interference cancellation, retrodirective communication and adaptive antenna arrays	370/208	370/335; 375/347
32	US 6115427 A	20000905	34	Method and apparatus for data transmission using multiple transmit antennas	375/267	375/240; 375/265; 375/296; 455/65
33	US 6084928 A	20000704	12	Radio environment analysis apparatus	375/347	342/147; 375/148
34	US 6067324 A	20000523	11	Method and system for transmitting and demodulating a communications signal using an adaptive antenna array in a wireless communication system	375/267	375/219

	Inventor
23	Wallace, Mark et al.
24	Raleigh, Gregory G. et al.
25	Ferreol, Anne
26	Rashid-Farrokhi, Farrokh et al.
27	Kapoor, Samir
28	Cimini, Jr., Leonard Joseph et al.
29	Arad, Oren et al.
30	Raleigh, Gregory G. et al.
31	Agee, Brian G.
32	Calderbank, Arthur Robert et al.
33	Kuwahara, Yoshihiko
34	Harrison, Robert Mark

	Document ID	Issue Date	Pa ges	Title	Current OR	Current XRef
35	US 6044120 A	20000328		Time-varying weight estimation	375/347	375/349; 455/276. 1
36	US 5933446 A	19990803	7	Beamformer with adaptive processors	375/130	342/196; 342/354; 375/347
37	US 5870432 A	19990209	17	Method for transmission line impulse response equalization and a device to perform this method	375/232	333/166; 375/350; 708/323
38	US 5848105 A	19981208	46	GMSK signal processors for improved communications capacity and quality	375/336	370/478; 375/346; 375/350
39	US 5761088 A	19980602	18	Method and apparatus for channel identification using incomplete or noisy information	348/614	348/611; 375/224; 375/231; 375/350
40	US 5621768 A	19970415	11	Generalized noise cancellation in a communication channel	375/346	375/349; 375/350; 455/303
41	US 5267266 A	19931130	11	Fast converging adaptive equalizer using pilot adaptive filters	375/232	375/350; 708/323
42	US 5260968 A	19931109	22	Method and apparatus for multiplexing communications signals through blind adaptive spatial filtering	375/347	
43	US 5222080 A	19930622	15	Method and apparatus for signal reconstruction	370/422	370/474; 375/350; 455/303; 455/306

	Inventor
35	Bar-David, Israel et al.
36	Bond, James W. et al.
37	Kerckhove, Jean-Francois Van
38	Gardner, William A. et al.
39	Hulyalkar, Samir N. et al.
40	Lechleider, Joseph W.
41	Chen, Walter Y.
42	Gardner, William A. et al.
43	Wang, Yao et al.